

# FIELD DEPLOYABLE GO/NO-GO DECISION SUPPORT

**Quick, reliable and conclusive engine, transmission, and gearbox health information at the flight line.**



## APPLICATION

**The ChipCHECK CC122** maintenance tool employs innovative alloy identification spectroscopy technology to analyze chip detector debris. It enables maintainers to conduct wear debris analyses themselves, immediately at-line.

ChipCHECK uses digital image capture in combination with a Laser Induced Breakdown Spectroscopy (LIBS) system to automatically analyze wear debris. This analysis determines the alloy type and size for each individual particle in your sample. Simplicity, reliability, portability, and powerful analysis capabilities combine to make ChipCHECK the ideal choice to meet today's ever expanding mission critical flight line maintenance demands.

## FEATURES

Rapid analysis time – immediate results

Average analysis time: < 5 minutes

Provides individual debris particle identification, sizing and metallurgical analysis

Substantiates chip detector alerts and reduces unnecessary component removals

Field deployable unit - replaces subjective assessment of chip collector debris

Empowers/enables line maintenance users with reliable at-line field deployable decision support

## BENEFITS

Improve equipment readiness and maximize dispatch availability

Reduce AOG, aircraft downtime, and equipment downtime

## Rapid on-site assessment of engine and gearbox condition

Go/No-Go decision support

Reliable identification of component damage

Minimize no evidence of failure (NEOF) removals/overhauls

Improve safety



## PERFORMANCE

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| Particle Analysis                | Quantity, size, alloy                                                                              |
| Minimum Detectable Particle Size | 4,000µm <sup>2</sup> (min dimension: 71µm)                                                         |
| Sample Patch Size                | 1.5" x 1.25" with 0.5" x 0.5" clear window<br>3.81cm x 3.18cm with<br>1.27cm x 1.27cm clear window |

## ENVIRONMENT

|                               |                             |
|-------------------------------|-----------------------------|
| Ambient Operating Temperature | 50°F to 95°F   10°C to 35°C |
| Operational Humidity          | 80% non-condensing          |
| Vibration                     | Shock & vibration isolated  |

## INPUT

|              |                             |
|--------------|-----------------------------|
| Power Supply | 100-240VAC, 50-60Hz, 3A Max |
|--------------|-----------------------------|

## PHYSICAL

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| Weight     | 40 lbs   18 kg                                                                      |
| Dimensions | Length 18.5" x Width 14" x Height 14"<br>Length 47cm x Width 35.5cm x Height 35.5cm |

## USER INTERFACE

|                           |                                          |
|---------------------------|------------------------------------------|
| Display                   | 10.1" Integrated screen                  |
| Data Entry                | Touchscreen                              |
| Data Storage              | Local to unit                            |
| Data Transfer             | CSV database export & PDF report exports |
| External Connection Types | 2x USB, 1x serial & 1x ethernet          |

## COMPLIANCE

ASTM D8182-18  
CE  
CSA Special Inspection (CAN & US)  
EN/IEC 60825-1 2007  
Complies with US FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007  
Class 1 Laser Product  
Ingress Protection IP41  
FCC Part 15

## INCLUDED ACCESSORIES

Sample Patches and Cases  
Calibration Standard  
Sample Tray  
User Information Manual  
Transport Case

## OPTIONAL ACCESSORIES

Patch Preparation Kit  
Keyboard & Mouse  
Additional Sample Patches

ChipCHECK  
ONLY BY GASTOPS

**ORDER NOW**

Order: System-CC122

North America: 1 800 363 8658

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